

# *PRICE AND GESS*

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## **PRELIMINARY AMENDMENT**

**Inventor(s):** Kazuhiro Yamada et al.

**Title:** GRAY-SCALE IMAGE DISPLAY DEVICE  
THAT CAN REDUCE POWER  
CONSUMPTION WHEN WRITING DATA

**Attorney's**  
**Docket No.:** NAK1-BO60

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NAK1-BO60

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Application of:

Kazuhiro Yamada et al.

Serial No.:

Filed:

For: GRAY-SCALE IMAGE DISPLAY DEVICE  
THAT CAN REDUCE POWER CONSUMPTION  
WHEN WRITING DATA

Examiner:

Group Art Unit:

Irvine, CA 92614

April 23, 2001

**PRELIMINARY AMENDMENT**

Assistant Commissioner for Patents  
Washington, D.C. 20231

Dear Sir:

Prior to an examination on the merits of the above-identified application, please enter the following amendments:

**IN THE CLAIMS:**

Please amend the claims as follows:

Claim 14, line 1, delete "one of Claims 1, 2, 3, 4, 5, and 13" and insert --Claim 1--;

Claim 15, line 1, delete "one of Claims 1, 2, 3, 4, 5, and 13" and insert --Claim 1--;

Please add the following newly-drafted Claims 20-29.

1           20.     The image display of Claim 2, wherein the image changing unit changes the part  
2 of the sub-field image data or the sub-field image data, only when the predetermined sub-field  
3 period has a smaller luminance weight than a predetermined value.

1           21.     The image display of Claim 3, wherein the image changing unit changes the part  
2 of the sub-field image data or the sub-field image data, only when the predetermined sub-field  
3 period has a smaller luminance weight than a predetermined value.

1           22.     The image display of Claim 4, wherein the image changing unit changes the part  
2 of the sub-field image data or the sub-field image data, only when the predetermined sub-field  
3 period has a smaller luminance weight than a predetermined value.

1           23.     The image display of Claim 5, wherein the image changing unit changes the part  
2 of the sub-field image data or the sub-field image data, only when the predetermined sub-field  
3 period has a smaller luminance weight than a predetermined value.

1           24.     The image display of Claim 13, wherein the image changing unit changes the part  
2 of the sub-field image data or the sub-field image data, only when the predetermined sub-field  
3 period has a smaller luminance weight than a predetermined value.

1           25.     The image display device of Claim 2, wherein the image changing unit changes  
2 the part of the sub-field image data or the sub-field image data, only when an amount of power  
3 required to drive the first electrode is greater than a predetermined value.

1           26.    The image display device of Claim 3, wherein the image changing unit changes  
2   the part of the sub-field image data or the sub-field image data, only when an amount of power  
3   required to drive the first electrode is greater than a predetermined value.

1           27.    The image display device of Claim 4, wherein the image changing unit changes  
2   the part of the sub-field image data or the sub-field image data, only when an amount of power  
3   required to drive the first electrode is greater than a predetermined value.

1           28.    The image display device of Claim 5, wherein the image changing unit changes  
2   the part of the sub-field image data or the sub-field image data, only when an amount of power  
3   required to drive the first electrode is greater than a predetermined value.

1           29.    The image display device of Claim 13, wherein the image changing unit changes  
2   the part of the sub-field image data or the sub-field image data, only when an amount of power  
3   required to drive the first electrode is greater than a predetermined value.

## REMARKS

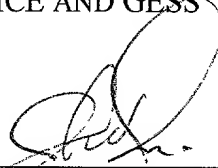
The amendments to the claims are to remove multiple dependencies.

Newly drafted Claims 20-29 are within the scope of the original invention and do not add any new subject matter.

If the Examiner believes that a telephone interview will help further the prosecution of this case, he is respectfully requested to contact the undersigned attorney at the listed telephone number.

Very truly yours,

PRICE AND GESS



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**VERSION WITH MARKINGS TO SHOW CHANGES MADE**

The claims have been amended as follows:

1           14.    (Amended) The image display device of [one of Claims, 1, 2, 3, 4, 5, and 13]

2   Claim 1,

3                   wherein the image changing unit changes the part of the sub-field image data or  
4   the sub-field image data, only when the predetermined sub-field period has a smaller luminance  
5   weight than a predetermined value.

1           15.    (Amended) The image display device of [one of Claims, 1, 2, 3, 4, 5, and 13]

2   Claim 1,

3                   wherein the image changing unit changes the part of the sub-field image data or  
4   the sub-field image data, only when an amount of power required to drive the first electrode is  
5   greater than a predetermined value.

        New Claims 20-29 have been added.